

Parameter	Value	Unit
Initial concentration of $\text{H}_2\text{O}_2$	0.01	M
Initial concentration of $\text{Fe}^{2+}$	0.001	M
Initial concentration of $\text{H}^+$	0.1	M
Temperature	25	$^\circ\text{C}$
Reaction time	0-100	min
Reaction rate constant $k$	0.001	$\text{min}^{-1}$
Reaction order with respect to $\text{H}_2\text{O}_2$	1	
Reaction order with respect to $\text{Fe}^{2+}$	1	
Reaction order with respect to $\text{H}^+$	1	
Half-life $t_{1/2}$	100	min
Activation energy $E_a$	50	$\text{kJ mol}^{-1}$
Pre-exponential factor $A$	1000	$\text{min}^{-1}$
Rate of reaction $r$	0.001	$\text{M min}^{-1}$
Concentration of $\text{H}_2\text{O}_2$ at time $t$	0.005	M
Concentration of $\text{Fe}^{2+}$ at time $t$	0.0005	M
Concentration of $\text{H}^+$ at time $t$	0.1	M
Rate of reaction $r$ at time $t$	0.0005	$\text{M min}^{-1}$
Half-life $t_{1/2}$ at time $t$	100	min
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Concentration of $\text{H}_2$		

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